# III SECRET

Approved For Release 2003/08/05 : CIA-RDP78R05171A000800030018-0

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MEMORANDUM FOR:

Chief, Projects & Programs Staff, TSSG/NPIC

SUBJECT:

APSD Activity Report for April 1970

1. The following items of significant interest occurred in APSD during April 1970:

#### a. Exploitation Support

#### (1) Interpretation

(a) Special reproductions of eight passes from using SO-369 and 6451 emulsions were made for NPIC/IEG and CIA/IAS. IEG reports that additional information was extracted from these special reproductions.

from these special reproductions

(b) An APSD conducted photo-interpretation evaluation of the color separation reproductions from was completed.
(See cable OUT 69785 dated 29 April 1970).

### (2) Photogrammetric/Densitometric Support

- (a) An error propagation model was prepared for incorporation into the Geometric Constraints Model (project # 610097).
- (b) Work on the Stein 8 \_\_\_\_\_ model has resulted in identifying additional data on error values which contribute to obtaining more precise measurements.
- (c) Micro-d readings on tape were provided to AID for testing the final micro-d support system translate program.
- (d) Iso-d traces of buildings at SSMTC were prepared for SPAD/Army.

#### **DECLASS REVIEW by NIMA/DOD**

GROUP 1 Excluded from automatic dewngrading and declassification

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(b) Initial phase handling of accomplished by the APSD Tiger Team. was

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	ATTACHMENT to: SUBJECT: APSD Activity Report for April 1970	25X1
	(c) The PET meeting for hosted by APSD at NPIC on 14-15 April was dated 21 April).  (d) Work on satellite Performance Evaluation (in reproduction)	25X1 25X1
25X1 25X1	(published), (50% complete) and (in reproduction)	25%1 25%1
25X1	ARGO and the National Color Task Group of NPIC Color Evaluation Report was distributed	
	(f) A SENIOR PEG Steering Committee meeting was hosted by APSD at NPIC on 23 April.  2. The following significant action items are anticipated for the month of May:	
	<ul><li>a. Initial phase handling of</li><li>b. Attendance at the following meetings:</li></ul>	25X1
	for 12 CCB meeting at scheduled	25X1
25X1	for 11-13 May.  (3) Post Flight Analysis Working Group meeting at CIA Hqs. scheduled for 21 May.	25X1
25X1	(4) Micro-d applications meeting at scheduled for 19-20 May.  (5) SPSE convention in New York City, week of	25X1
. •	may.	

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ATTACHMENT to:

SUBJECT: APSD Activity Report for April 1970

c. Briefing to OSI/DDS&T on photographic processes scheduled for 11 May.

Chief, Applied India Science Division TSSG/NPIC

Distribution:

Cys 1-7 - NPIC/TSSG/PPS

8 - NPIC/TSSG/APSD

9 - NPIC/TSSG/APSD

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TSSG/ESD-28/70 8 May 1970

MEMORANDUM FOR: Chief, Technical Services & Support Group, NPIC

THROUGH

: Chief, Projects & Programs Staff, TSSG

Executive Officer, TSSG

SUBJECT

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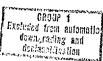
: ESD Activity Report -- April 1970

1. Noteworthy Events -- April 1970

a. Project Activity:

- (2) Mod. II Advanced Stereorhomboid Acceptance testing was completed and a Memorandum Test Report distributed. Although this test revealed only minor exceptions to the contractual requirements the subsequent operational evaluation disclosed that the decrease in viewing light, when switching from stereo to mono mode, was apparently unacceptable. Additional comparative tests were then performed and reported. One, for interpretability by RED and another, for relative light by ESD.
- (3) "Green" Light Table A MIM-47B table has been on at full intensity for 800 continuous hours. The coolant has not yet turned green, but the illumination has decreased from 2850 to 2050 ft-lamberts.
- (4) Wide Field Filar Eyepiece This prototype, designed for use on the twin stage dynazoom, is undergoing test and evaluation.

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	(5) Image Vibration Problem - A summary of accumulated vibration measurements data was presented to
•	(6) Preventive and Emergency Maintenance - The Equipment Performance Branch (EPB) responded to 68 requests for emergency service, predominantly electronic in nature. Under the preventive maintenance program 246 instruments were serviced.
25X1	(7) Equipment Design, Modification and Fabrication - Sixteen in-house projects were completed in support of Center components. In addition, the has continued to modify MIM-14 light tables for oil leakage problems. To date, 239 have been modified.
	(8) Univac Communications Cabinets - Site preparation has continued for moving the Univac communications cabinets from the second floor to the first floor. Twelve 102-conductor cables have been installed from the second floor patch panel area to the equipment area on the first floor and EPB is in the process of connecting them.
051/4	b. Personnel Activity:
25X1	(1) attended a one-day Agency training session on familiarization and use of fire fighting equipment.
25X1	(2) attended a bomb detection briefing at Headquarters.
25X1	(3) attended the National Plant Engineering Conference and Show in Chicago.
25X1	(4) attended a two-week training course on
25X1	maintenance of Electronic Data Printers.
25X1	(5) reported for duty with ESD/TEB on 6 April.
	2. Anticipated Events May 1970
	(1) Distribution of the T&E Report on the Digitized Measuring Light Table.
	(2) Distribution of T&E Reports on the tables.
	- 2 -

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(3) Dist	ribution of a	a Test Report	on the Wide	Field Fila	ar
b. Personnel	Activity	None.			
		Engineer	Chief	Division,	TSSG

Distribution:

Orig. - Addressee

- 1 TSSG/ESD/TEB
  1 TSSG/ESD/EPB
  1 TSSG/ESD

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NPIC/TSSG/PPS-039-70 LL May 1970

MEMORANDUM FOR:	Chief, Technical	Services & S	Support Group,	, NPIC
SUBJECT:	Projects & Progr	ams Staff Mon	nthly Report -	- April 1970
A. During A functions for TSS sentation to the liaison contact w production matter actions.	Production Manag with PPBS on budge	) administrat ement Board, et matters, a	tive, (2) dail (3) working land $(4)$ with I	ly repre- Level PSG on
meeting for	epared for, condu April; began pro futt AFB, Omaha, l	parations for		; to
2. Com	mpleted the Third	Quarter Budg	get Review for	FY 1.970.
statements i	lated the TSSG and in the NPIC Notice Chief, Support	e No. 1-130-3	33, dated 24 (	
	mpleted Panel B romposite Evaluation			
B. During M	May, the following	g significant	actions are	anticipated
	epare for and concrations for the		necting for Ma to Offutt AFB	
2. Und personnel T/	dertake the detail	led study of	the structure	of future

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Prepare reports on Budget status for TSSG as of 30 April

and extend through 30 June.

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SUBJECT: Projects & Programs Staff Monthly Report - April 1970

4. Prepare TSSG input to the Operating Budget FY 1971.

Acting Chief, Projects & Programs Starr, TSSG, NPIC

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Distribution:

Original - Addressec 2 - NPIC/TSSG/PPS

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NPIC/TSSG/RED-138/70 \_ 11 May 1970

		Approved For Release 2003/08/05 : CIA-RDP78B05171A0008000300 18:10:illeation	
	6.	Chip Comparator. The first of four Chip Comparators has been modified by	25X1 25X1
25X1		hosted a special CCB meeting for the purpose of reviewing the Production Oriented Color Enlarger proposal.  Extensive in-house coordination is being carried out to obtain significant NPIC requirements for the performance specifications of the device.	
	<ol> <li>4.</li> <li>5.</li> </ol>	Budget continues with primary emphasis on refining the FY-71 R&D Program Budget.  Special CCB Meeting. On 10 April, SA/PA/RED,	25X1
<b>25X</b> 1	3.	Tracking Light Source. In response to request, instructed to conduct a high priority, short-term study on the feasibility of developing a high-intensity, tracking light source for the 1540 light tables.	25X1
	2.	1540 Light Tables. Both 1540 Light Tables have completed a period of T&E. The tables have been returned to their respective contractors and used for demonstrating acceptable solutions to problems dicovered during T&E. Both contractors attended separate sessions at NPIC in regard to a critique of problems on the 1540 light tables.	
	1.	High Precision Stereocomparator. Acceptance tests on the optical system will be completed by 4 May 1970. Resolution far exceeds specifications, 1200 1/mm on axis as per 800 1/mm in specification. A new schedule indicates preacceptance tests at will start on 26 August and the instrument will arrive at about 30 September.	25X1 25X1
Α.	Sig	nificant Items of Interest for April 1970.	
	SUB	JECT: RED Monthly Report on Significant Events (April 1970)	
25X1	ATT	ENTION : PPS/TSSG	
	MEM	ORANDUM FOR: Chief, Technical Services & Support Group	,

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SUBJECT: RED Monthly Report on Significant Events (April 1970)

	7.	that refabrication of some of the anamorphic prisms will be necessary because of excessive astigmatism and is	25X1
25X1		considering the pros and cons of returning to the vendor,  or making them in-house. The Project  Monitor and our consultant will visit on 5 May to determine effects of this action. A cost overrun could result from these problems.	25X1
051/4	<u></u>	result from these problems.	
25X1	8.		
	-		
	9.	ATR-fraget Indexing Device. A Change-in-Scope for two magnetic tape units is in process. Work on the TID is progressing satisfactorily and the scheduled shipping date of 14 September should be met. A preliminary systems check-out is scheudled for 5 June.	25X1
Spelling	Τρ.	Wide-Field, High-Power Anamorphic Stereoviewer. The contract is in the hands of the contractor, and a signature is expected momentarily. The contract sigh-off to re-instate the fabircation phase is expected momentarily.	
05)/4	11.	Resolution Response from the Microfiche  Jacket Printer. In response to a request from the Chief,  CAS/SRB/RED, of the Exploratory Laboratory	25X1
25X1		determined the resolution response from the Microfiche jacket printer that is being used by the R&R Division of the PSG. The results were briefly: Resolution with the Jacket - 23 l/mm, out of jacket resolution - 51 l/mm. This resolution response is considered acceptable to the people in the R&R Division who use this device. Further details can be found in RED/ATB-090/70 dated 2 April 1970.	25X1
25X1	12.	Room Colors for the Comparator. On 3 April, in response to a request from Chief, Photogrammetry Division, IEG,	
25X1 25X1		investigated several sources of standards for room colors for the comparator. Recommendations were	
	•		

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SUBJECT: RED Monthly Report on Significant Events (April 1970)

taken from the draft USA Standard for Direct Viewing of Color Transparencies and are recorded in RED/ATB-081/70 dated 3 April 1970.

Evaluation of Model II Rhomboids. Beginning on 10 April 13. and continuing through 24 April, ATB participated in a evaluation of the new Model II Rhomboids. proposed an investigation using PI response to operational imagery under controlled conditions. This was using performed under the direction of and some in-house contractual assistance from assistance from the Imagery Technology Lab. on 15 April to lay Task Team was convened in out the experimental design and began work at NPIC on The study was completed and the Division Chiefs briefed on 27 April. The results of the study are now being compiled in a formal document for further reference.

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Capabilities of sponsored a capabilities briefing by on 28 April in the Lobby Conference Room. Personnel from all components of the Center attended and heard resumes of activities Vice President and Director presented by Tests and Measurements Lab, of Research; and [ Manager of of the Technical Stair and Optical Devices and Displaying. (See RED/ATB-087/70.) Complete resumes of these persons, as well as reprints s work on laser and TV displays, are available in ATB. The briefing presented included the This equipment, description of a Slide Home Theater. which permits color slides to be viewed on a commercial home color TV set, provides the capability for a low-cost, quick-response method of "jockeying" imagery color to achieve a variety of effects. Success in correcting defective color photography by this method was reported by a representative. Follow-up plans call for RED seeing a demonstration of this equipment.

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15. Annual Meeting of the Inter-Society Color Council. Mr.

of the Exploratory Lab attended the 39th Annual
Meeting of the Inter-Society Color Council in New York
City on April 13th and 14th. Details of this meeting are

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SUBJECT: TED Monthly Report on Significant Events (April 1970)

high-lighted in RED/ATB-095/70 dated 23 April. Perhaps of greatest significance to NPIC is a problem the ISCC will study in the following year. It was proposed by a representative of the U. S. COAST & Geodetic Survey who stated the problem as follows: "Photointerpreters of C&GS have difficulty in specifying colors on color aerial photography." They have made preliminary attempts to relate the transmission image color to reflection color, but to date, this has not been successful. problem was accepted for study by the ISCC and is designated as Problem 31--"Standard Methods of Measuring and Specifying Transparency Color Photography." Two men who took part in the discussion in this problem and head of have worked on the problem are the Color Technology Division and ATB will keep close watch on the activities of this ISCC problem.

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made a trip

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Research Problems at on 10 April to L has three main Government research programs underway; 1) an aerial duplicating film, 2) a laser recording film, and 3) a "camera speed" film. The duplicating film is being made for Westover; the laser recording film is sponsored by Wright-Patterson AFB; and the "camera speed" film is for OSA. ATB will closely follow these programs and reserve final judgement until they are finished. Copies of all proposals and

progress reports have been requested through channels.

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Oil Contamination Problems. During the month of April 17. ATB has continued its evaluation of color changing in the cooling oil of \_\_\_\_\_\_940 light tables. A summary of this work is reported in RED/ATB-105/70 dated 30 April 1970. ATB recommends that we give preference to the use of alternate methods of cooling light sources in future procurement of light tables in order to alleviate this problem. Chemical analyses of the contaminated green oil from light tables continues. The contaminant has not been identified as yet but indications point to several possible sources. Sufficient information has been obtained to make several recommendations for maintenance of tables on hand and modifications in any additional tables to be built.

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SUBJECT: RED Monthly Report on Significant Events (April 1970)

25X1 25X1	18.	Unsolicited Photochemical Processes Study Proposal from An informal proposal for a Study of Novel Photochemical Processes was received from  It essentially proposed a literature review, evaluation, and recommendations of seldom used chemical processes for laboratory trial to assess their potential values for chemical image manipulation. The proposal was sufficiently appealing to warrant our requesting a formal proposal.
	19.	Theoretical Color Gamut for SO-242. The computer generation of the theoretical color gamut for SO-242 has been completed. It provides the theoretical C.I.E. and N.C.S. color coordinates for all combinations of various E.N.D. of the three dye layers taken two at a time in increments of .05 E.N.D. units from 0.0 to 2.95 E.N.D. These tables will enable us to obtain the theoretical color coordinates for an unknown color patch on SO-242 from three color desitometric measurements
	20.	Approval of Project Proposals.
		a. Scan & Search P. I. Station (Phase II) proposal has been approved by the Executive Director, NPIC, and forwarded for DDI and DDCI approval.
!5X1		b. The 10" x 10" Stereocomparator proposal was approved by the Executive Director-Comptroller, CIA, on 21 April 1970. This instrument will be developed by the and delivered to NPIC in mid-1971.
		c. Vibration Isolation contract has been approved by Director, NPIC.
	·.	d. The Zoom 240 Filar Eyepiece project was approved by the Director, NPIC, on 3 April 1970.
		e. UV Rear Projection project, Phase II, with has been approved.

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Modification of the Twin Stage Comparator was approved on 27 April 1970.

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RED Monthly Report on Significant Events (April 1970) SUBJECT:

	21.	Briefings.
25X1		a. On 8 April, briefed a group of new IEG PI's on the NPIC R&D program.
25X1		b. On 23 April, briefed RADC R&D personnel on the NPIC R&D program.
		c. A series of briefings have been presented to the operating divisions on the Advanced Stereo Rhomboids and 1540 Light Tables. The briefings were designed to provide the facts necessary to permit decisions on the procurement of these instruments.
25X1	· .	d. RTG visited RED on 14 April 1970.
25X1 25X1		gave a capabilities briefing on 15 April
В.	Anti	cipated Items of Interest for May 1970.
с.	See of R	None.  Attachment 1 (TOP SECRET - for the report ED/RSB significant events for April 1970.
		Deputy Chier Research & Engineering Division
25X1		Attachment:  1.  Distribution: Orig. & 5 - TSSG 2 - TSSG/RED  15 Mus ok hy

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,	4 May 1970	25X1
	Сору	
	MEMORANDUM FOR: Chief, Research & Engineering Division, TSSG/NPIC	
	SUBJECT: Reconnaissance Systems Branch Monthly Report April 1970	
	Significant Events for the Month of April 1970:	
25X1	1. participated in the following activities:	
•	a. Attended Color Task Force meetings and related subjects throughout the month, including one at NRO with attending.	25X1
	b. Attended a briefing on Free Radicals given at NRO by	25X1
	<ul> <li>Attended two-week seminar on Advanced Intelligence given by CIA.</li> </ul>	
. •	d. Attended MC&G (subcommittee of COMIREX) meeting concerning KH-4 doppler results in terms of positional accuracy, as well as problems related to stellar/terrain system.	25X1
25X1	e. Visited ORD with and was briefed on new systems.	
25X1 25X1	2. was appointed consultant to the VHR Evaluation Panel (Chairman, This committee will determine the needs for VHR and the urgency for VHR systems. The project is to be terminated by October 1970.	
25X1	3. On 27 April 1970, started the Intelligence Briefing Course being held Monday and Wednesday mornings through 20 May 1970.	
25X1	4. participated in the following activities:	
25X1	a. Briefed SPAD on Improvement Program.	
	b. Met with SOC personnel to implement the Reports Control Manual requirements.	25X1
25X1	c. Briefed on NPIC requirements and capabilities.	25X1
Excluded f downgt	Approved For Release 200308/05 CDX RDP78B05171A000800030018-0	:

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			25X1
	SUBJECT:	Reconnaissance Systems Branch Monthly Report April 1970	
	d.	Attended meetings at on the T.I.D. interfaces with MPR, the NPIC computer, and SOC requirements.	25X1
25X1 25X1	е.	Attended meeting at on above subjects as well as MPR.	
	<b>f.</b>	Attended meetings at STC anddealing with TM tape readout and analysis and other interface problems.	25X1
25X1	g.	Briefed DoD personnel onframe calibrations.	
25X1 *	h.	Briefed Improvement Program.	
25X1	i.	Attended meeting at, on optical calibrations, optical titling techniques, andinterfaces.	25X1
25X1	j.	Briefed Improvement Program.	
25X1	k.	Attended meetings at dealing with evaluation techniques and calibration requirements.	
25X1	1.	Briefed and other DIA personnel on the MPR formats and accuracies.	25X1
	m.	Attended a meeting of COMIREX VHR committee dealing with SALT requirements.	25X1
		Chief, Reconnaissance Systems Branch, RED/TSSG/NPIC	

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8 May 1970

MEMORANDUM FOR: Chief, Technical Services and Support Group
SUBJECT : Support Services Division Monthly Report - April 1970
SECURTIFY -
1. The Chief, Security Branch and Physical Security Officers attended two meetings at Headquarters on the new badge issuing standards. New badges will be issued this summer. Badge indicators will be greatly reduced.
2. Approximately 80 employees attended a special class at on the use of fire extinguishers and other related equipment. This class was very well accepted.
3. Security arranged for 14 employees to attend a "suspect package and bomb search" briefing presented by the Secret Service at Headquarters Building.
4. Security discussed use of closed circuit TV for training PI's in new integrated information system with representatives from Office of Communications Security and the responsible NPIC Training Officer, The use of the CCTV was approved but only with certain restrictions.
5. The Physical Security Officers attended a meeting at NSA/Ft. Meade on interfacing on gray and green secure voice telephone system.
TRAINING -
1. Arrangements were made with the Office of Training to have the Support School Clerical Training conduct a Refresher Typing course at which began on 20 April and will continue through 15 May. The class is held one hour each day, 0900 to 1000 hours, five days a week with 18 students enrolled (PSG-10; IEG-3; TSSG-4; PPBS-1). The instructor is

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SUBJECT: Support Services Division Monthly Report - April 1970

2. Arrangements were made an	d completed for a special running
of a Technical Writing Workshop (F	I Writing) course for IEG analysts
and editors. The class started 29	April and will continue through
24 June, each Wednesday 0900 to 11	15 hours (in the Auditorium) for
25 students. Direc	tor of the
is <u>th</u>	e instructor and
, OTR, is assisting	

LOGISTICS -

- 1. The scrubbing and waxing program which was instituted during the middle of March has been continued on a regular basis and the building is now approximately 80% completed. We have been advised by the Building Manager that once the entire building has been scrubbed and waxed, it will be repeated on the regularly prescribed schedule of once every 13 weeks. Under the present arrangement, the scrubbing and waxing is accomplished by 3 GSA employees. It is probable that their efforts will be replaced by a private contractor who will perform this vital custodial service.
- 2. Arrangements were consumated for the destruction of the lead printing plates (classified) in the approved facility in Maryland. It is estimated that it will require three men approximately 8 hours to destroy the 4,000 pounds of metal plates we currently have on hand. It is interesting to note that previously our arrangements to schedule use of the smelter have been made by the Logistics Services Division in Langley. Under the new procedure this time consuming procedure is no longer necessary and we are now able to make our own arrangements directly with the smelter.

Chief, Support Services Division TSSG/NPIC

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2 - NPIC/TSSC/SSD

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